

WHAT IS CLAIMED IS:

- 1    1.        A server system comprising a plurality of servers that can be  
2    each operated as a primary system and a standby system by system  
3    switching, and a shared disk unit for storing data accessed by said  
4    plurality of servers, wherein:  
5        each of said plurality of servers comprises:  
6        an application means;  
7        a driver means that: acquires information on a configuration  
8    inside said shared disk unit after starting of said system; and, based  
9    on said configuration information, sets said shared disk unit in an  
10   active state in which an access request to said shared disk unit can  
11   be sent; and, when the driver means receives an access request to  
12   said shared disk unit, sends said access request to said shared disk  
13   unit; and  
14        an access control means that: judges whether an access  
15   request issued by said application means should be sent, based on a  
16   management table indicating inhibited types of access requests for  
17   each access destination; and sends said access request to said driver  
18   means when said access request is not inhibited for an access  
19   destination of said access request.
- 1    2.        The server system according to Claim 1, wherein:  
2        when a fault occurs in a server operating as the primary  
3    system, then the access control means of said server registers in  
4    said management table such that an access request of said  
5    application means to any access destination is inhibited.

1 3. The server system according to Claim 1, wherein:  
2 said server system further comprises a console for sending  
3 said plurality of servers a system switching command inputted by  
4 an operator; and  
5 when a server operates as the primary system and the access  
6 control means of said server receives said system switching  
7 command, then, said access control means registers in said  
8 management table such that an access request of said application  
9 means to any access destination is inhibited.

1 4. The server system according to Claim 2 or 3, wherein:  
2 said access control means registers in said management  
3 table such that, as said access request, at least write is inhibited.

1 5. The server system according to Claim 1, wherein:  
2 said management table indicates an inhibited read and/or  
3 write access request for each access destination; and  
4 said access control means judges, based on said management  
5 table, whether a read or write access request issued by said  
6 application means should be sent, and sends the read or write access  
7 request to said driver means when said access request is directed to  
8 an access destination for which the read or write access request is  
9 not inhibited.

1 6. The server system according to Claim 1, wherein:  
2 said management table indicates an inhibited file open  
3 and/or file close access request for each access destination; and  
4 said access control means judges, based on said management

5 table, whether a file open or file close access request issued by said  
6 application means should be sent, and sends the file open or file  
7 close access request to said driver means when said access request  
8 is directed to an access destination for which the file open or file  
9 close access request is not inhibited.

1 7. The server system according to Claim 1, wherein:  
2 said server system further comprises a console for sending  
3 said plurality of servers a command for registering, deleting or  
4 changing inhibited access requests for each access destination, with  
5 said command being inputted by an operator; and  
6 when said access control means receives said command, then,  
7 according to said command, said access control means registers,  
8 deletes or changes an identifier specifying an access destination and  
9 types of access requests inhibited for said access destination, in said  
10 management table.

1 8. The server system according to Claim 1, further comprising:  
2 a console for sending each of said plurality of servers a  
3 command that is inputted by an operator and that requests contents  
4 of the management table, and for outputting the contents of the  
5 management table received from the server in question.

1 9. A server that can operate as a primary system and a standby  
2 system by system switching, comprising:  
3 an application means;  
4 a driver means that: acquires, after starting of said server,  
5 information on a configuration inside a shared disk unit whose data

6 are shared by a plurality of servers; and, based on said  
7 configuration information, sets said shared disk unit in an active  
8 state in which an access request to said shared disk unit can be  
9 sent; and, when the driver means receives an access request to said  
10 shared disk unit, sends said access request to said shared disk unit;  
11 and

12 an access control means that: judges whether an access  
13 request issued by said application means should be sent, based on a  
14 management table indicating inhibited types of access requests for  
15 each access destination; and sends said access request to said driver  
16 means when said access request is not inhibited for an access  
17 destination of said access request.

1 10. A storage medium storing a program for making a server  
2 operate as a primary system and a standby system by system  
3 switching, with said server being provided with a driver means that  
4 receives an access request to a shared disk unit whose data are  
5 shared by a plurality of servers and that, on receiving said access  
6 request, sends said access request to said shared disk unit, wherein:  
7 said program makes said server execute:

8 processing of acquiring, after starting of said server,  
9 information on a configuration inside said shared disk unit, and of  
10 instructing said driver means based on said configuration  
11 information to set said shared disk unit in an active state in which  
12 an access request to said shared disk unit can be sent, and

13 processing of judging whether an access request issued by  
14 execution of another application program should be sent, based on a  
15 management table indicating inhibited types of access requests for

16 each access destination, and of sending said access request to said  
17 driver means when said access request is not inhibited for an access  
18 destination of said access request.

1 11. A storage medium storing a program for making a server  
2 operate as a primary system and a standby system by system  
3 switching, wherein:

4 said program makes said server execute:  
5 processing of acquiring, after starting of said server,  
6 information on a configuration inside a shared disk whose data are  
7 shared by a plurality of servers, and of setting, based on said  
8 configuration information, said shared disk unit in an active state in  
9 which an access request to said shared disk unit can be sent; and

10 processing of judging whether an access request issued by  
11 execution of another application program should be sent, based on a  
12 management table indicating inhibited types of access requests for  
13 each access destination, and of sending said access request to said  
14 shared disk unit when said access request is not inhibited for an  
15 access destination of said access request.

1 12. The storage medium according to Claim 11, wherein:  
2 said program further functions as an OS in said server.

1 13. A method of access control in a server that can operate as a  
2 primary system and a standby system by system switching,  
3 comprising:

4 processing of acquiring, after starting of said server,  
5 information on a configuration inside a shared disk whose data are

6 shared by a plurality of servers, and of setting, based on said  
7 configuration information, said shared disk unit in an active state in  
8 which an access request to said shared disk unit can be sent; and  
9       proccssing of judging whether an access request issued by  
10 execution of another application program should be sent, based on a  
11 management table indicating inhibited types of access requests for  
12 each access destination, and of sending said access request to said  
13 shared disk unit when said access request is not inhibited for an  
14 access destination of said access request.